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THE ARCHITECT SKETCH PLAN SHOWS FOUR ROOMS TO THE WEST, A CENTRAL ATRIUM, A FACILITIES AREA AND A MULTIPURPOSE HALL WHICH OPENS TO THE EAST. THE INTENT of THE ARCHITECT IS TO PROSIDE A MINITIPULPOSE COMMUNITY CENTRE COMPHISING of VARIOUS ADAPTABLE SPACE BOTH INSIDE AND OUT TO CATER FOR THE EMERGING COMMUNITY of CLONGRIFFIN, NORTH CONNEY PUBLIN. THE ARCHITECTS INITHE SKETCHES WERE LIGHT ON DETAIL BUT THE OVERAL ASPIRATION IS CLEAR, TO CREATE A FACILITY THAT IS VERSITILE, ENVIRONMENTALLY CONSCIENTS AND SUSTAINABLE THROUGH IT'S LIFETIME.

IN ORDER TO CARLY THE PROJECT FORWARD VARIOUS CHILDECINES, STANDARDS + REGULATARY REQUIREMONDS WILL HAVE TO BE CONSIDERED AND APPLIED TO MAXIMISE THE BUILDINGS POTENTIAL WITHOUT COMPROMISING THE ORIGINIAL VISION.

















## SHORELINE LEISURE + COMMUNITY CENTRE.

Comisining A pool, Multiperpose HALL, GYM MEETING 20005 + CAFE. CONSTRUCTED in THE CATE 2000'S THE BUILDING CONSIST OF THREE STRUCTURAL CONSEPTS.

- THE POOL AND GYM AKEAS WITH CHANGING FACILITIES HAS A GLULAM STRUCTURAL FRAME WHICH SPANS FRONT TO BACK WITH AN INVOLUTED "L" SHAPE CONNECTED TO THE GROWND AT ONG END (FRONT ELEVATION) AND SUPPORT BY COLUMN/STRUCTURAL WALL AT THE OTHER. TIMBER PURLINS ARE USE AS SECONDARY MENBER WITH TUBULAR STEEL DIAGONAL BRACE ADDING ADDITIONAL SUPPORT. THE EXTERNAL ENVELOPE IS CORRIGATED SILVER METAL SHEETS WHICH RETURNS FROM THE ROOF DOWN THE FRONT ELEVATION, MET BY PARK GREY FISEL COMENT BOARD AND CURTAINS WALLING GLAZING BETWEEN THE EXPOSED GLULAM.
- THE SPORTS HALL IS SPANNED BY A, STEEL BOW TRUSSES SUPPORT OFF COLUMNS WITH METHE INSULATED INFILL PANELS AND FIRRE CEMENT BOARD ABOJE.
- THE MEETING ROOMS TO THE REAR of THE SPORTS HALL TO IS A STANDARD PLATFORM CONSTRUCTION.

REF WICKLOW CO. CO, PLANNING ONLING.





SHORELINE COMMUNITY SPONTS CENTRE. GREYSTONES

RESEARCH.

AIDAN MELENNA D19124287





THIS UNDERGROUND SPORTSHALL IN THE SERJIAN TOWN OF OBRENOVAL IS TOPPED WITH A GLASS BOX COVERED WITH VERTICAL WOODEN LATHS TO PROTECT. 15 OVER HEATING

GLULAM COLUMNS AND BEAMS SUPPORT THE GREEN ROOF ABOUG THE SPORTS HALL WITH TIMBOL PANECLING SURROUNDING THE INUCL SPORT HALL. THE COLUMNS RISING ABOUG THE GROUND LEVEL PROVIDE THE GRID TO DEFINE THE GLAZING SYSTEM.

RESEARCH

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GROWNL FLOOR PLAN 1:200

AIDAN MCKENNA

D19124287



FIRST FLOOR PLAN 1:20



SECONS FLOOR RAN 1:200

ORGANISATION

AIDAN MIKonna D19124287







Analysis of Architectural Intent and Development of Project			
Brief	Provided	Consideration	Comments
Ground Floor			
Multipurpose Hall for sports, events and temporary staging of shows/concert. Include storage and large opening to the east.	775m <sup>2</sup> Multipurpose Hall accommodating 3 badminton courts with 1.4m perimeter walking space around. 2 by storage rooms flank the barn like door opening to the east for the site which will will accommodate a temporary stage or provide a link to the outside during local market events.	Badminton courts measure 6.1 x 13.4m withaddition run off area, Metric Handbook. 2 by 15m <sup>2</sup> storage rooms will need to be appropriately fire rated, 60 minutes. With a potential occupancy of approx. 250 persons the Hall requires a minimum of 3 escape fire door at a minimum clear width of 1400mm. The Hall will act a separate fire compartment to the rest of the building, TGD Part B. The Hall should be ventilation through natural means using controlled window openings and roof vents. Low energy heating should be consider using radiant heaters or underfloor heating. Provide natural lighting through roof lights and high level perimeter window the the north and south walls, consider solar shading to the south to reduce glare. During nighttime hours low energy LED high bay directional fitting should be considered. An arch or curtain system to provide a backdrop for stage events is desirable. Acoustics will be managed using specific wall panels, flooring and ceiling diffusers.	The Hall area increased significantly to accommodate the required activities.
Toilet and Changing Facilities	Female and male changing/showering/wc facilities have been provided off the main corridor linking the Hall to the Central Atrium. Seperate male and female ambulant/disabled wc and showering facilities have also been provided.	Sanitary provision as per the Metric Handbook. Sizes and layouts of ambulant and disabled facilities as per TGD Part M. Access to each block must be via vented lobbies. WC flush capacity and other facility appliances as per TGD Part G. This entire block acts a fire compartment in it's own right. As the main corridor is a 60 minute fire rated protected corridor the access lobby construction and doors should be of 30 minute fire rating, TDG Part B. Heat recovery and controlled ventilation via heat pump. Low energy lighting fitted into acoustic suspended ceiling tiles. Services via fire rated vertical services ducts.	In order to accommodate the required amount of changing facilities this area increased significantly for the original plan.
Central Atrium	157m <sup>2</sup> glazed Central Atrium providing a focal point as well as an access link to the various activity opportunities offered by the centre. A reception desk and cafe area provided on the ground floor. First floor cantilevered walkways with connecting bridge spanning from east to west.	As the external envelope is glazed, controlling solar overheating, glare and balancing day and night light levels is importance for occupance comfort. External solar shades or louvres modules attached to the curtain walling system will help. Low energy LED fitting and feature lights where required. The Atrium will act as a natural ventilation flue extracting stale air from adjacent rooms. Smoke extraction and fire curtains maybe required to prevent the spread of fire and smoke. The cantilevered first floor walkways and bridge will need careful consideration as will the cafe preparation area.	This area is as was envisaged.
Vertical Access and Stairways	A stairway and lift have been provide beside the entrance/north eastern end of the Atrium. A separate stairways to the south west of the Atrium was added.	The stairs and handrails comply with TGD Parts B, M & K and provide ambulant access to the first and second floor. The small lift which is not a means of escape as the public operable areas on the first floor are below the threshold to provide a larger lift. Emergency lighting and smoke ventilation as per Part B.	Only one stairs was initially proposed but TGD Part B required the addition of a second means of escape to comply with travel distances.
3 by Meeting Rooms	3 by Meeting Rooms have been provided on the Ground Floor accessible for the Central Atrium. Room 1.1 @ 25m <sup>2</sup> include a kitchenette. Room 1.2 @ 37m <sup>2</sup> . Room/office 1.3 @ 13m <sup>2</sup> .	As the partition walls dividing these rooms are non-load bearing they is opportunity to amalgamate two or more rooms into one larger area. As the room exit into the Atrium which acts as the fire escape route 60 minutes walls and door must be provided. The kitchenette will require additional fire equipment, ie. fire blanket, extinguisher. TGD Part B. Consider accessibility at and around the kitchenette under TGD Part M as well as door openings and vision panels. Ventilation through natural extraction via windows and stack ventilation into the Atrium. Heating via underfloor heating are low energy heat recovery wall cassettes units. Acoustics to accommodate a wide variation of activities by carpeting floor, absorbing ceiling tiles and wall insulation. Light via windows in external wall and Atrium wall and low energy LED fittings. Services via suspended ceiling and wall service cavities.	These room exceed the desired areas.

First Floor			
Gallery / Viewing Rooms	2 by Hall Viewing /Gallery Rooms can double up as larger activity rooms for yoga, aerobics and toddler groups. Room 2.4 @ 55.6m <sup>2</sup> and room 2.5 @ 56.6m <sup>2</sup> are divided be a load bearing wall.	As the partition wall dividing these rooms is load bearing they is limited opportunity to amalgamate into one larger area. As the room exit onto the cantilevered Atrium walkway which acts as the fire escape route 60 minutes walls and doors must be provided. Glazing to provide viewing into the Hall will need to be fire rated to 60 minute TGD Part B. Consider accessibility under TGD Part M for door openings and vision panels. Ventilation through natural extraction into the Atrium. Heating via heat recovery wall cassettes units. Acoustics to accommodate a wide variation of activities by carpeting floor, absorbing ceiling tiles and wall insulation. Light via windows in Atrium and Hall walls and low energy LED fittings. Services via suspended ceiling and wall service cavities.	As no First Floor Plan was provided these rooms provide adequate viewing and activity accommodation. Temporary tiered seating could be considered.
Toilet Facilities	Female and male wc facilities have been provided off the First Floor walkway. A separate male and female ambulant/disabled wc	Sanitary provision as per the Metric Handbook matrix. Sizes and layouts of ambulant and disabled facilities as per TGD Part M. Access via vented lobby. WC flush capacity and other facility appliances as per TGD Part G. As the lobby exits into a seperate fire compartment a 60 minute fire rated door should be provided. The lobby itself and door off it should be of 30 minute fire rating, TDG Part B. Heat recovery and controlled ventilation via heat pump. Low energy lighting fitted into acoustic suspended ceiling tiles. Services via fire rated vertical services ducts.	As no First Floor Plan was provided these sanitary facilities are adequate for the activities on the first floor.
3 by Meeting Rooms	3 by Meeting Rooms have been provided on the First Floor accessible for the Atrium walkway. Room 2.1 @ 25m <sup>2</sup> include a kitchenette. Room 2.2 @ 43.4m <sup>2</sup> . Room/office 2.3 @ 13m <sup>2</sup> .	As the partition walls dividing these rooms are non-load bearing they is opportunity to amalgamate two or more rooms into one larger area. As the rooms exit onto the Atrium walkway which acts as the fire escape route 60 minutes walls and doors must be provided. The kitchenette in room 2.1 will require additional fire equipment, ie. fire blanket, extinguisher. TGD Part B. Consider accessibility at and around the kitchenette under TGD Part M as well as door openings and vision panels. Ventilation through natural extraction via windows and stack ventilation into the Atrium. Heating via low energy heat recovery wall cassettes units. Acoustics to accommodate a wide variation of activities by carpeting floor, absorbing ceiling tiles and wall insulation. Light via windows in external wall and Atrium wall and low energy LED fittings. Services via suspended ceiling and wall service cavities.	These room exceed the desired areas.
Second Floor			
Plant and Storage Rooms	Plant Room 3.1 @ 98.2m <sup>2</sup> and 3.2 @ 41.3m <sup>2</sup>	Accommodation of heat recovery, ventilation and water storage plant will require these rooms to be acoustically insulated to provide noise and vibration transfer to nearby accommodate rooms. 60 minute fire rated walls and door as well as fire and smoke seals around rising ducts and pipes. Access via 60 minute fire rated corridor. Light provided by low energy LED fittings.	These plant / storage rooms are more than adequate to house the required equipment to service this building and is separated for the majority of accommodation rooms to avoid noise interference.
Site			

Parking, playground, allotment and green houses, outdoor performance and seating area, grassed areas and paved perimeter walking trail with seating and water features.		Car, bike and disabled parking should be provided as per the Dublin City Council local development plan and TGD Part M for sizes. Playground equipment by specialist with rubberised ground surfaces in areas where trips and slip are a risk. Allotment and associated green houses design be landscaping specialist with focus of cultivation and soil makeup. Irrigation to be sourced from rain water harvesting collected in covered storage tanks adjacent to build. Pergola type cover over outdoor performance area with paving and stepped seating to create an auditorium type surround. Paved walking trial surface to be selected with random seating, picnic and water features throughout the remaining landscapes site.	
Building Envelope			
A mix of glazing, timber and rainscreen. The south facing elevation incorporated a living green wall		Regard will have to be given to the living wall irrigation, solar shading on the Atrium and long term maintenance of any natural timber cladding.	
Sustainability Measures			
The architect intent was to create an environmentally conscious and energy efficent building	PV roof mounted panels, rain water haresting, nZEB or better building design and construction, low embodied carbon construction methods and materials, low energy lighting and heat recovery systems and natural ventilation where possible.		











STRUCTURE ADD MCKENNA

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PRE Analysis TABLES.



FIZE

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FIRE PART B ARCA of boom (m2) PURPOSE GROUP 5 Occupancy LOHO 15 IT MORE THAN 18m ONE Direction ?? Is place of Assombly. (TABLE 0.1) L> DOG A TABLE + MATHS. Cimit of TRAVER Distance As Mens -MIGHT NEED TOUD 18 in ONE DIRECTION. of rescare REIDGES 45 in Two Pirecarians. L NAVIA TWO 1 TO SOO PERSONS = ESCAPES ROUTES TABLE 1.3 > 500 PERSONS = 3 ESEAPE RONTES -> THE HALL NEED 3/4 Doors. of escapes TABLE 1.4 WIPTHS - 750mm 950mm 150 Porsons -50 Porsons 1050 mm - .820 mm 220 parsons 100 11 11 D MIGHT BE MORE THAN 220 PERSons ED CLEAR + HALFLEAF Lo 5mm por porson. + WOTH 1 - 300 persons = 1.5mm Door OR CONLIDOR STAIRS NTOTAL EUACUATION -> PARA 1.3.5.4 + TABLE1.6. P = 200 w + 50 (w - 0.3) (N - 1)P = NO. of Porsons -> 200 (on Fiest flow). W= WIDTH of STAIR -> 1200 mm 200× 1.2+50 (1.2-0.3) (3-1) (1.8) (9) (2) > 15 THE STAIRS OF TO THE ESCAPE 520 persons THSE 22 OK SELF CLOSING Door MECH of 60 min + 3min fire Poors locas Hyprames 5.1 SEE DiAgram 30 - Building over 1000m2 GROWD Aboar NEED AT LEAST ONE HYDRANT - for Nin - 1 See Provision Goe Vetticle 5.2. Access. H HALL AGAMAN - FIRO MAIN -VENSULATION of HEAT + SMOKE 5.4.3 ATRIUM Fire AIDAN MUKENNA D19124287.

Fier GENERAL INCO - Assembly - Reciercia - Georg S Toral HEAS -> Toral EROME FLOOR 1372.4M2 Secar Floor HALL. - ## # TISML 183.2 m2 1907.7m2 Massin, 1-1- 25m2 -MEERig 1:2- 37 m2 Meet 2.1 25.12 -officer - 13mit PRIJETE MEET 2.2 43.4m2 13m2. FIRST Floor -Office -Recept - 9.2m2 ATO tateToiler - 15.8m² Refines - 5700 - 22.5m2 Marle CHAmping - 36. Em2 - Gallany 2.4- 55.6 m I-FEMILE TOLES - 215m2 - Gotting 2.5- 57.6m2 Endleitrangily - 30.8m2 - we 26.6 m2 1-CAFE - 10.0m2 Loop Acp. N B - STORE 22.5m2 Scent. From. ATRIUM 157.0.12 3 98.27 PRANT. GLOUND FLOOR

Ana~ PLANT+ Occupting 24273 LOAD FACTOR STEMAGE NoumHE RISE People Persons. TRAVEL 5.0 or 30.0 DIST 45 2 0.3 233:3 18 DIRES MORETIMN 45 Meering 18 45 1.0 18 9435 45 ATTRIMM 0.7 109 18 L> DINING 2 76 1.0 tolers/ 1.0 -TOTAL.

TRAJEL DIST PERMITTED ESCAPE ACTUAL DIRET DIST RALEMA Room DIST.



## TRAVEC DISTANCES ANALYSIS.

25m <sup>2</sup> 37m <sup>2</sup> 13m <sup>2</sup> 57m <sup>2</sup> 9.2m <sup>2</sup>	1.0 1.0 1.0	11m D.D. 19m D.D 13m D.D 10m DD.	45m (ZROUTES) 45m (ZROUTES) 45m (ZROUTES.)
37m <sup>2</sup> 13m <sup>2</sup> 57m <sup>2</sup> 9.2m <sup>2</sup>	1.0 1.0 0.7	19m D.D 13m D.D 10m DD.	45 m (2 ROUTES) 45 m (2 ROUTES.)
13 m <sup>2</sup> 57 m <sup>2</sup> 9.2 m <sup>2</sup>	1.0	13m D.P 10m DD.	45m (2 12047ES.)
57m <sup>2</sup> 9.2m <sup>2</sup>	0.7	10m DD.	
9.2m²			45m (2ROUTES)
10 2	1.0	18m QD.	45m (ZROUTES)
um	1.0	9 m Q.D.	45M (ZKOWTES)
		18m DD	45m (ZROLOTOS)
	1.00	18m 00	45m (2ROUTES)
775m²	0.3		45m (7Roures)
25m <sup>2</sup>	ŀÐ	18m DD	45m (2 ROUTES)
43.4m2	1.0	15m DD	45m (2 Roures)
13.0m2	1.0	9.5m DD	45m (Zicoures)
55.6m2	10	18m 00	45m (2Rours)
56.6m2	(D	16 100	45m (2 Roures)
		19m DD	45m (2 ROUTES)
98.2m 41.3m2		17200 182000	每18 (1 ROUTE) 18 (1 ROUTE)
	25m <sup>2</sup> 25m <sup>2</sup> 43.4m <sup>2</sup> 13.0m <sup>2</sup> 55.6m <sup>2</sup> 56.6m <sup>2</sup> 98.2m 41.3m <sup>2</sup>	$775m^2$ 0.3 $25m^2$ 10 $43.4m^2$ 1.0 $13.0m^2$ 1.0 $55.6m^2$ 1.0 $56.6m^2$ 1.0 $56.6m^2$ 1.0 $98.2m^2$ $41.3m^2$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$

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ALCESSIBILITY AIDAN MCKENNA DIGIZ4287











ACOUSTICS AIDAN MUKENNA DI9124287











### SUN LIGHT PATH + DAYLIGHT STRATEGY

EXCESSIVE SUNLIGHT GLARE CAN BE REDUCED WITH THE INTRODUCTION of EXTORNAL SOGAR SHADES - EITHER SOLAR BLINDS, BRISE SOLEIL OR EXTORNAL LOUVERS, TO THE SOUTH AND EAST.

- IN THE ABOVE SKETCH, MEETING ROOM 2.2 MAY REQUIRE A SOLAR STADE TO REDUCE GLARE + POTENTIAL OVER ITENTING.
- Solar Louises FITTED TO THE ATRIAN WITH REDUCE GLARE+ OVERHEATING.

# VENTIMATION / HEATING

NATURAL VENTILATION USING AIR INTAKE SLIPS INTEGRATED INTO GLAZING FRAMES. CONTROLLABLE LOUVRED VENT PANELS ABOVE INTERNAL DOOR TO ALLOW AIR MOVE INTO ATRIUM IN A CONTROLLES MANNER. Supplemental HEAT + COOLING PROVIDED BY A/C WALL OR CEILING UNIT WITH AIR HANDLING UNIT ON FLAT ROOT.

LAINWATCR

ON SITE.

PANWATEL Collector

an Reaf CHANNellog

TO WATCH FEAMLE

WATER FEATURE

SERVICES

KITCHENETTE

PART & FIRE.

LIGATING

300MM SUSPENDED COULNE

TILES . VOID AWAYS THE TRANSFOR

of VENTILATION . HEATING, ELEC

TO HAVE SERVICES. ALL WALLS TO HAVE SERVICE CAVITIES.

WITH ACOUSTIC ABSORBANT

TO COMPLY WITH PART M AccessABILITY AND TO BE

AND EXTINGLISHER AS POL

NATURAL DAYLIGHT TO BE

By PV PANEL LOCATOD

ON HALL Roof.

Supplementes By Low Energy

LED LAMPS + FATINGE Supplice

ENVIRONMENTAL.

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INPER - IN-ROCK

MADE FRAN COMPRESSED FIBRES of BASALT, REINFORCED WITH THERMOSETTING SUNTHETIC BINDERS AND PRESSED UNDER PRESSURE + HIGH TREMPERATURES. THE PANELS CONSIST of AT LEAST 20% RECYCLED MATCHIALS WITH A LIFE EXPECTANCY OF + 60 JEMS. THEY ARE ALSO 100% RECYCLARLE AND ARE CERSIFIED AS At/A BY THE BRE GLOBAL. AUAILABLE IN A UNST AREAS OF COLOURS, SIZES AND FIXING METHODS THEY OFFER A HIGHLY EFFICIENT, SUSTAINABLE, RAIN SCREEN WEATHERING SYSTEM.





Dimensions of CLICKE T+G PROFILE CEDRAL LENGHT - 3600mm - 186 mm WIDTH THICKNESS - 12 mm PECCY AVAILABLE THROUGH TEGRAL FILING - 600 mm 40 BUILDING PRODUCTS IN IRCLAND CEARAL 15 A FIZZE CONON BOARD MANUfactures 0 IN BELGIUM, WITH THE UISHAR APPEAR at TIMBER IT IS & Low MAINTENENCE, SUSTAINABLE ALTERNATIVE TO U/UCS. IN A wrote Range of COLOWIS IT CAN BE FIXED HOURDWITHELY on Verrically, LANGED are CLICA TIG. CEPERL PROPRIETARY THE SYSTEM INCLUDES & Full Range BOARD (Lip For use with T+G BOARDS.+ CEDRAL of coencer junctions, eno Profiles Coloured Screws. AND PERFORMED VENT CLOSENCE STRIPS. 4 FACILITIES HALL 1. BLOUL EPDM Stx 50mm STRIP. Key PLAW. TREATION TIMBER BATTEN 38× Sonn TREATOD CORNER DIAGRAM EPDM STRIP TIMBER BATTEN. of CLICK T+G PROFILE. 5 Aluminium FIBRE CEMENT RAILS + CLIPS+ LEXTERANC PAVING. BRACKETS ALSO A LIGHT WEIGHT, LOW CARBON 2 GROUND PRAIN WITH STONE ALL. AVAILABLE. 2020 FOOT PRINT, COMPOSITE MATCRIME. 3, SAND/CEMENT PLINTH. MADE From PORTLAND CENIGUY, 4. Selected CEORAL Wich TROPALETARY Cellulose Fianes, SyNTHETIZ TrG PROFILE BOARDS Click clip HERES, SAND + WATER. CEPRAL HOLDS BOARDS 5, Aluminium Square Corner LAP PROFILE YT IS STRONG, DURABLE AND IN POSITION COLONEED TO MATCH. VERSATILE ACROSS A WIDE STARTING FROM GEPDM STRAP ON Borrom up. Range of applications. TREATED TIMBER CEDRAL CLICK BATTERS 600% PROFILE. 7. BREATHER MEMBRANE. EXTERNAL ENVELOPE. 8, MANGLAL WOOL INSULATION. CLICK T+G LAPPED BOARDS ADAN MCKENNA 9, CLT STEUCTURAL BOARDS. WALL. D19124287













RAIN SCREEN. EXTERN4R FRIANCE. 03 0 AIR GLAP Some nin Due Rain Screen - Calina in ANDWICH Princh CINTERNAL -400×400 FNISH HALL ConTRACTION ! Expansion ? \* SOUND ABSOZDSIE WALL BUILD UP Hall HALL WALL DETAIL AIDAN MELENNA D19124287. Scanned with CamScanner





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IT IS IMPORTANT TO ACHIEVE A HIGH LEVEL of INSULATION AROUND THE ENTIRE BUILDING. THE DIAGRAM ABOUG SHOWS IN RED THE PROPOSED THERMAL LINE AROUND THE BUILDING ENVELOPE.

EXTERNAL ENVELOPE

D19124287

#### CLTWALLS

MATENAL	THICKNESS (M)	(w/mk) CONDUCTIVITY	RESISTANCE
250		_	0.400
FIBRECEMENT	0.012	0.45	0.026
AIR SPACE	0.050	-	0.180
MINERAL WOOK	0.150	0.035	5.142
CLIWAU	0.160	0.120	1.333
AIR SPACE	0.035	-	0.180
PLASTERDOMED	0.015	0.43	0.0348
RSI	-	-	0.130
12 WELL "	STATIN ALCEPT	HBLE	7.425
T TGD RE	quirements	- 117.425 =	0.13 4/12/0



SIP PANEL WALL

MACGRIAL	THICKNESS	CONDUCTNITY	RESOLANCE.
LSO	-	-	0.400
FIBRE CEMENT	0.012	0.450	0.026
AIR SPACE	0.050	-	0.080
Mineralwood	0.050	0.015	1-428
SIP PANEL	0.250	0.033	7.575
MINERALWood	0.050	0.035	1.428
AIR SPACE	0.030	-	0.180
TIMBER PANEL	0.015	0.130	0.115
THE SUD PRAVEL COULD			11.332



THE SIP PANEL LOULD

A BE REDUCED IN THICKNESS : 1/ 11.332 = 0.08 0.08w/mzk carce confirm by Engineer AS IT IS STRUCTURAL.

TIAT	(IT	Doof
FUNI	un	ico - i

MATERIAL	THICKNESS	CONDUCTIVITY	RESISTANCE.
RSO	-	-	0.400
SINGLE PLY Mombrane	-	/	1
XPS insul	0-160 min.	0.034	4.705
CLT.	0.200	0.120	1.666
MINGANL	0.050	0.035	1.428
251	-	-	0.130
	·		8.331

A THE XPS INSULATION 7 0 301 = 0.1 A 15 THPERED TO A MIN THICKNESS OF 0.160m



EXTERNAL ENVELOPE.

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PARA M SHARED SELF SERVICE AMTEEN PAGE 89 SECTION 1.5 Ding 28 - 1800 mm x 1800 mm CLEAR in Franz of get IFT - CLEAR 800mm Lif. ope Door. - Min interned DIM 1100 × 1400 - CARGER LIFT in Public Buildings. × 1400 - 63 m2+61=124m2 Conform wITH 15. EN 81-1, 81-2×1400 81-70 - Contral Buttons mis HEIGHT 900 Max " " " 1100 Directiont - Signage + Tractice Floor Number. - Contract, in Floors - HALF Morray in LIFT CAR 900 TO 950 DAFRON 5+ HANDRIAL 2200 1400 Small come Lang & Com

PART M. + IWA. pg 18 Approved to Building. (Proce of Assenvery) -> Level Access SHOWD IS E PROVIDED WHELE POSSIBLE, GENT SLOPES ALLESS ROUTE SHOWLD BE AS SHALLOW AS POSSIBLE. GRADICUT STEEPAL THAN 1:50 (But LESS STEEP THAN 1:20) 13 1:20 on Lass proferres - Avois Dranger of INADVENTALLY MALES 12 TO TRAFFIC ZOUTE, MARK with TACTILE PADing - CAR PARKing 1.1.5 SET POWN MARCA 1.1.6

Pan M Mini clem wipit Gent. SLOPE G 1500 -> DITTO La PRODIDE PASSing SPACE 2000x1800 Ever 25m 1 - Level Landing AFTER EVERY RISE of 500mm 1:20 1:50

- CAR Punkiz. Point of 5 CLFY ALGESS TAINS We + 54000 DESET WADTH continon + NC Partins TACTILE PADring. 50 of SPACE PERSTAIN crossing SHOULD DE Dosignition DISABLED. TACTICE 1200 PROPPED See Pingin St KERB 1800 CLEAR 1800 LEVEL Namet MAX CHAMFOR. -ANTO DOORS. THRESHOLD 1000mm Nhin MANUAL DOONS NECO Correction Soft closely OR ANTO PUSH Berrow ofon + EASY PUSH apt \* AS. THE PORS ANTO DOCK PREFORMBLE CAFECTIVE CLOSE By by Anto of an in Evant of WIDTH+ UISIn Fine - conver at fine connot Pravel (LI) 13 OK.

Dark Manchestanaus 11, 7.4% 7 1400 2 CR AC 7 1400 2 CR AC 00200 4 1090. 00000 11, atenty PAGEANTIATOO From Gertainwall. -GALARD AS POR B5 6262: 20005 +( Circulation within. IGLEPTIC. SIGNS, ACCEPTED DYDIBULS of PICTUSTY DIRECTIONS. 18000 9500 -Receptin Date 1100 - 760 TWELGUELS L NAIN 1200/1800 NO KAVES SPACE 1400 x 2200

Internal Dans. NEEDER For Part B SELF KLOSTING Door But HINDER MOBILITY. S HOLD OPON OR MAGNER How open LINE TO FIRE PRIEL CLEAR CARE WIDTH in High ALLESS ALEAS For public (HALL) MAGNES Vi canside fine Cound Smoke + Accustics. CORRIDORS / PASSAGE WAYS 1500 Allow w/cHAin + Person To PASS 1800 7111 Allows Two WICHAIRS TO Min un obstructor PASS WIDTH of 1200mm 6 NOT OBSTRUCTOD BY RADS, COLUMNS ETC. DIAC IF CORDIDOR is <1800mm wise PREVIDE PASSing PLACES 1500 t 1500 t Fill PASSing PLABE. 1500 THIN

NOT A MAJOR ACCESS ROUTE 900 SORDIDON >> e TIMM 1als DISABLED. MOBSTUCTED HIGH. 00 nii corron NO Min Light Level WDE SNOT AT FLOOR of Allung 100 Lux SAME SIDE.

Port M. WC3 -NO. gf WC NEEDED SEE PART G. 15 DEPand ge use, NO of people erc. - PROVIDE A 1800mm Dia TARNing CIRCLE WITHIN WC. - Building over 200m2 NEED WHEELCHAIN Accessible we Currister) with Thening CIRCLE 1800 Dia. 4 TOIRADO. - PROVIDE AMBULANT WC on EACH FLOOR - Provide Disasced we an exect floor ABOJE / JELOW WHERE VERTICAL ACCESS 15 provide. TGO Min WC LEQUIREMONT AS PER PART M 1.4.4 +1.4.6 mia we + SHOWAR 1.4.4 + 1.4.8 - Cotranging facility & anTSINGO AS POR 1.4.9 (Swhere NOT PRACTICIAL SEC INDIVIDUAL MISER + ACCESSIBLE SHOWE 1.4.8 - WC Door & SHOUD PREFERANCE afon out on increase AREA WITHIN CUBICAL - APPLIANCES (TAPS, SHOWER ETC) SHOULD BE OPARABLE WITH CLOSE FIST.

- REACH ABLE PULL CORD WITH UISIRCE / ANDIBLE IN DICATOR CIGNT LEVELS 200 - 300 LUX, AT FLOOR LEVEL. Non Slip floor Finish + Level NC FAM 15 EN 997. 2003. Diagram 15A. &= WC 15B -> Smaller. - Door opposite we pan \* THIS BUILDING REQUIRES X 1800 × 1800 TURNig WC. AMBULANT DISABLED WC - Fou people an crutes A LARGER THAT STANDARD MANDEWRING SPACE IS REGUIRED

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PART M. 1500 EAR BARIP RAILS SPACE POOR OPENS 800-900 STANDARD STANDARD. we forBulance CUBICAL. CUBICAL <u>(спитенез)</u> Діндрал 19 1.4.6.2 Doon 1500 × 500 1200 Diagram 19. ENLANGOD SEE Amzulan 14.6.3 CUBICAL Gundo Dog A A

LIF A PASSANGER LIFT is THE MOST ACCESSIBLE MEANS of VERSICAL CIRCULATION + Allow people wipe A wipe pronge of ABILITIES TO TRAVEL conversion than flown + - floor. STAILS - AT LEAST ONE STAIRS SHOULD BE SMITABLE For AMBULIAN DISMAGLE PEOPLE - MEANS of ESCAPE . (REFTO PART B) CIFT D. 1.8 × 1.8 acan manoeuving Arta in from of Life. LIFT DOORS CLEAR 800 mm Min. Min Lift Size 200 = SMAll LIFT. IF PUBLIC AREA (NET) > 200 m² PER FLOOR PROVIDE A LARGER CIFT 2000 WIDE X 1400 DEEP. CHECK AGAIN Call Burran Heigitt 900 to 1100 mn Hight 500 mm From my RETURN with. - TACTICE INDICATOR For Floor Normates ADJACENT TO BUTTON 10

LIFT LIFT FLOW NOT A DANK COLOUR + SLIP RESISTANT. VISUAL + ANDIBLE INDICATE WARNIN ARRIVER of Lifr. HALF LENGHT MIRRA ON apposite WALL TO LIFT DOOR + HAND RAIL SEE DIAGEAN 13 STAIRS - MIN WIDTH 1200mm WALL TO WALL - LANDIN AT TOP + BOTTOM ONE GACIT Flight. > ATLEAST 1200 UNOBSTUCTOS & ENGTH on width of Flight which Guar 13 GREATEL . NO SINGLE STEPS. - THE RISE of A FLIGHT SHOULD NOT BE GREATER +4AM 1800 5 \$ 1800 - All STEPS NOSING SHOULD HAVE PERMANENTLY CONTRASTLY MATERIAL in THE THREAD. - Going AT LEAST 300mm - NO TAPORED THREADS ON OPEN RISERS - Cantinues HAMPRAIL ON EACHSIPE of Flight, Min WIDTH BETWEEN 1-1ANDRAILS > 1000mm.

STAIR NON SLIP SURFACE on PHREAD + MIN. 100 LUX LIGHT on Sufface Diagram 14 - Hanorail Projection. + Height. ANDIENCE SITTING (VIEWING AXEN??) - TABLE 3 - CAPACITY PERMI REMOVABLE SEATS SEATS. REMANDEL TO MAKE 6 ирто 600 1% тотис Sents Eldent WITHOW SEATS FIXED SEATS UHEEC CHAINS ACCESS TO PAISED/STAGE UNA RAMP/LIFT + PROVIDE SIQUAGE. PROJADE HEARing EnHANCEMENT SISTEM WORKTOP For SHARE Solf SERVICE FACILIES S. (KITCHENETTE) 1.5.5 D Dirgen 28 SEE work & Drawing.

Para M đ. OTHER THINGS DIAGRAM 30 (Pg 93) Socker HEIGHTS.









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